Mahmoud Ahmed

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SUMMARY

I use public high-throughput data to learn about the process of autophagy. I build open source tools for managing data in my lab, mainly R packages, and shiny applications.

Education

Gyeongsang National University Graduate school Master of Science Grad. Feb. 2018

Cairo University Kasr-Alainy School of Medicine Bachelor of Medicine and Surgery Grad. May 2014

Skills

Workflows: Genomic data processing,

Network analysis Programming: R, Python Tools: docker, Git, LaTeX

Languages: Arabic (native), English

Certificates

Coursera Specializations: Mastering Software Development in R, Genomic Data Science, Data Science, Academic English: Writing

edX Programs: Data Analysis for the Life Sciences, Genomics Data Analysis

Volunteering

Staff member and outdoors activity instructor for youth and scout activity centers.

Gilwell Park London, UK SAPSC Suncheon, SK Camp Lakota Ohio, USA

RESEARCH

Gyeongsang National University 2016 – present Graduate Student Jiniu. South Korea

- Investigating the role of the autophagy process in the development and differentiation of fat cells using public data.
- Building tools for managing and analyzing data.

PUBLICATIONS

- Mahmoud Ahmed et al. "Transcriptional Regulation of Autophagy Genes via Stage-Specific Activation of CEBPB and PPARG during Adipogenesis: A Systematic Study Using Public Gene Expression and Transcription Factor Binding Datasets". In: *Cells* 8.11 (Oct. 2019), p. 1321. ISSN: 2073-4409
- Mahmoud Ahmed et al. "Co-Expression network analysis of AMPK and autophagy gene products during adipocyte differentiation".
 In: *International Journal of Molecular Sciences* 19.6 (June 2018), p. 1808. ISSN: 14220067
- Mahmoud Ahmed et al. "Functional Linkage of RKIP to the Epithelial to Mesenchymal Transition and Autophagy during the Development of Prostate Cancer". In: *Cancers* 10.8 (Aug. 2018), p. 273. ISSN: 2072-6694

OPEN SOURCE

- **colocr, R package** An R package for conducting co-localization analysis in fluorescence microscopy images.
- **cRegulome**, **R package** An R package to access, manage and visualize regulome (microRNA/transcription factors)-gene correlations in cancer.
- pcr, R package Quality assessing, analyzing and testing the statistical significance of real-time quantitative PCR data.
- miRCancerdb, shiny web application A database for microRNAgene/protein expression correlation in cancer.

TASK PREFERENCE

★☆☆Writing code to get and clean data★★☆Performing and reproducing an analysisVisualizing and presenting findings

★★☆ Writing a manuscript to be reviewed by strangers

ឋជជ Arguing with the strangers